



1/18

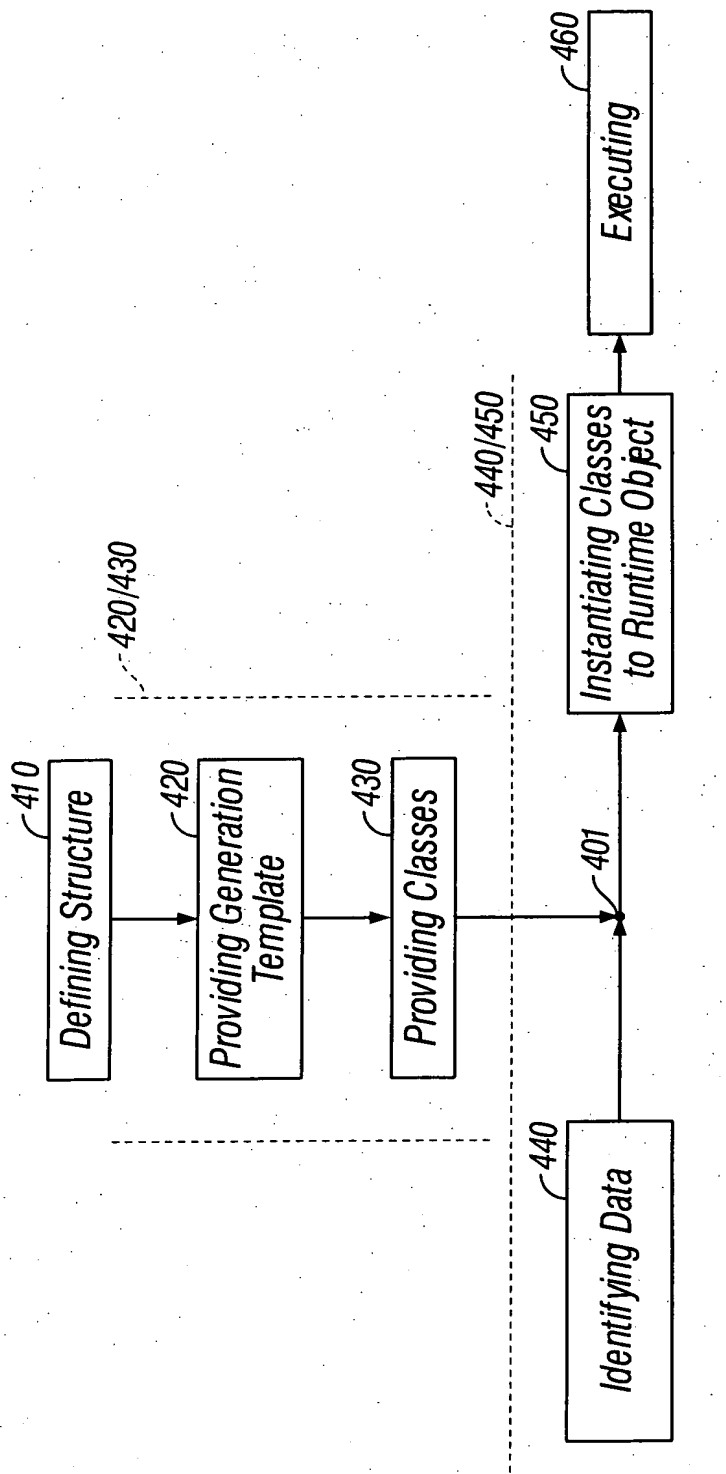


FIG. 1

2/18

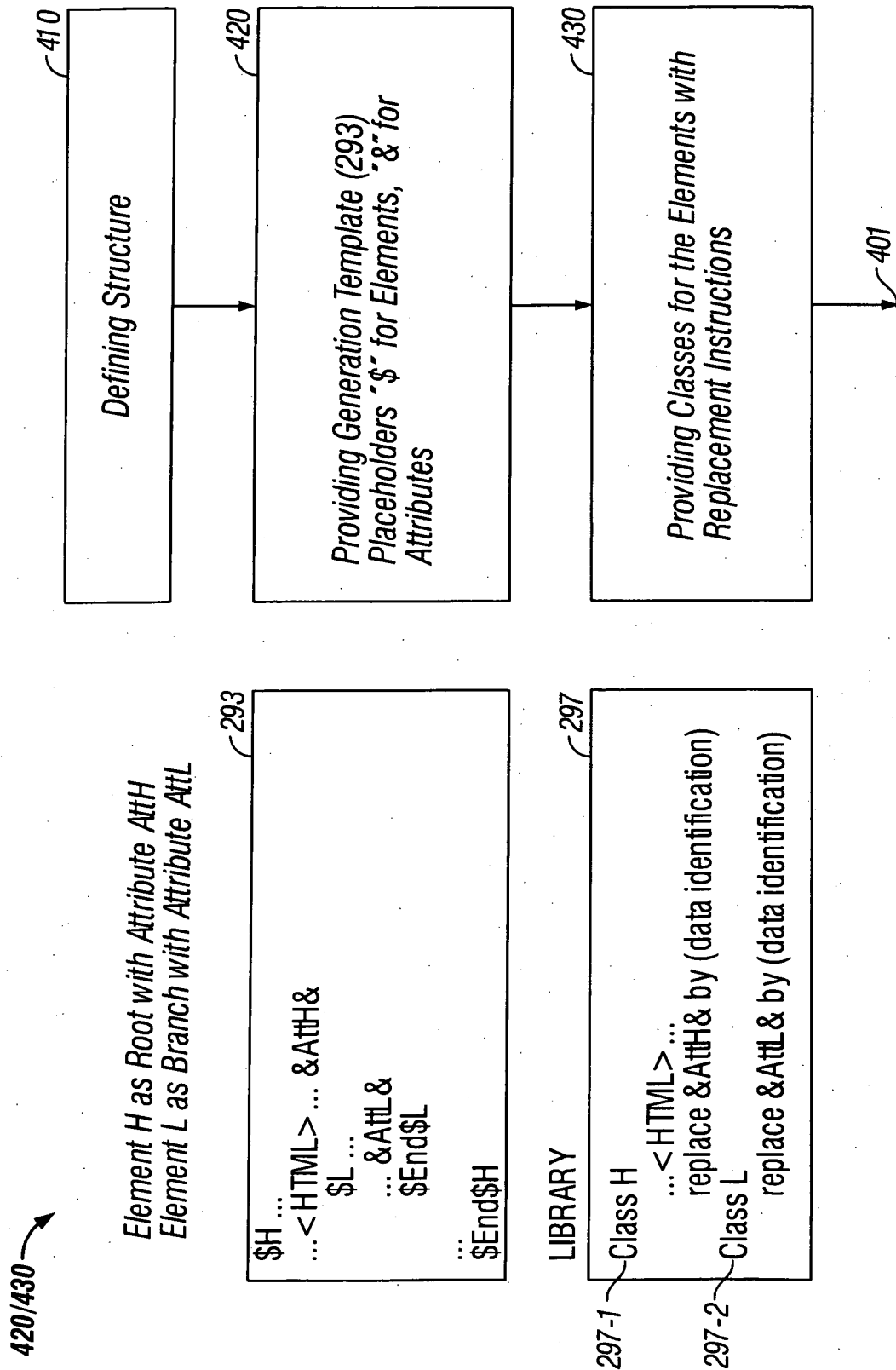


FIG. 2

3/18

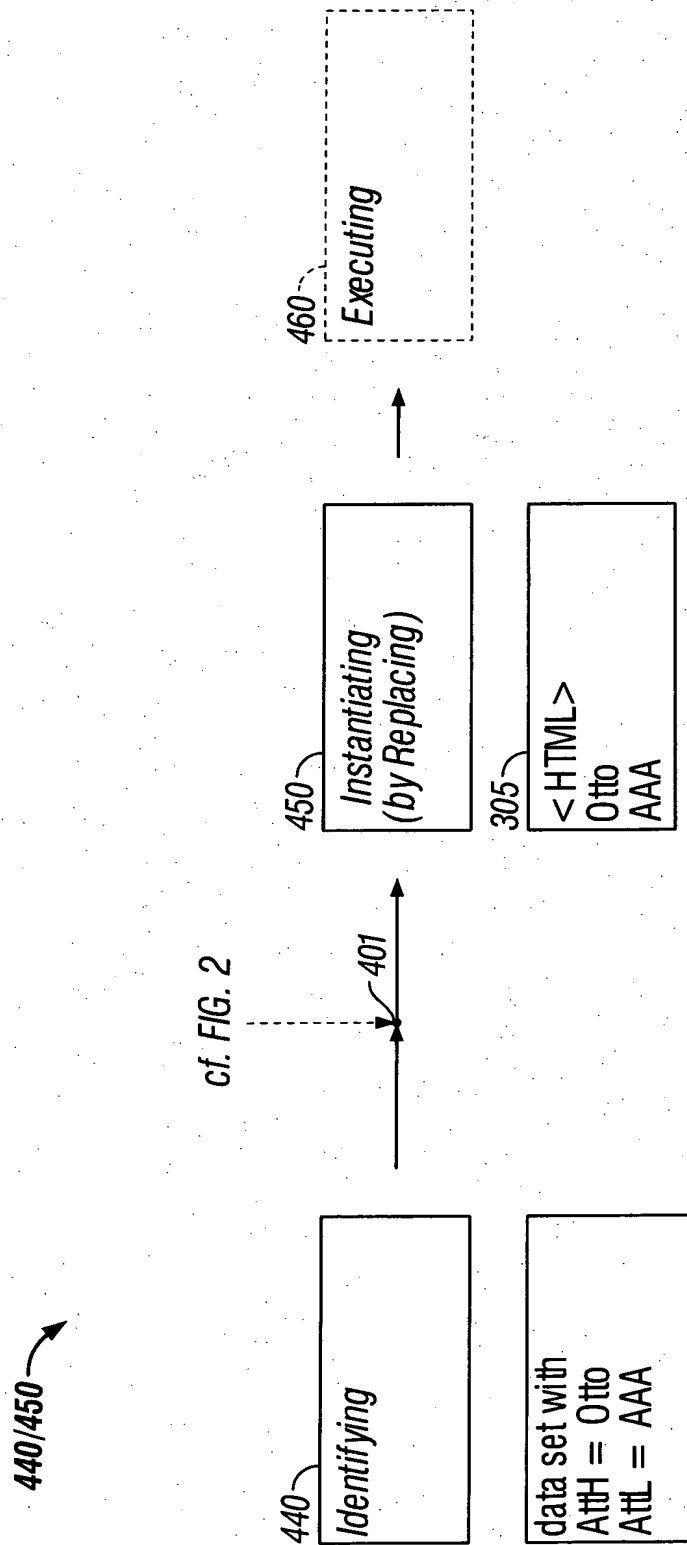


FIG. 3

4/18

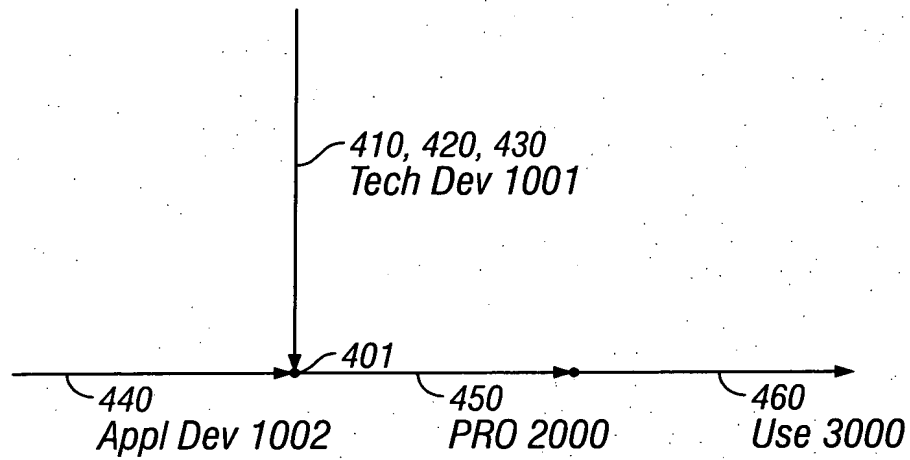


FIG. 4

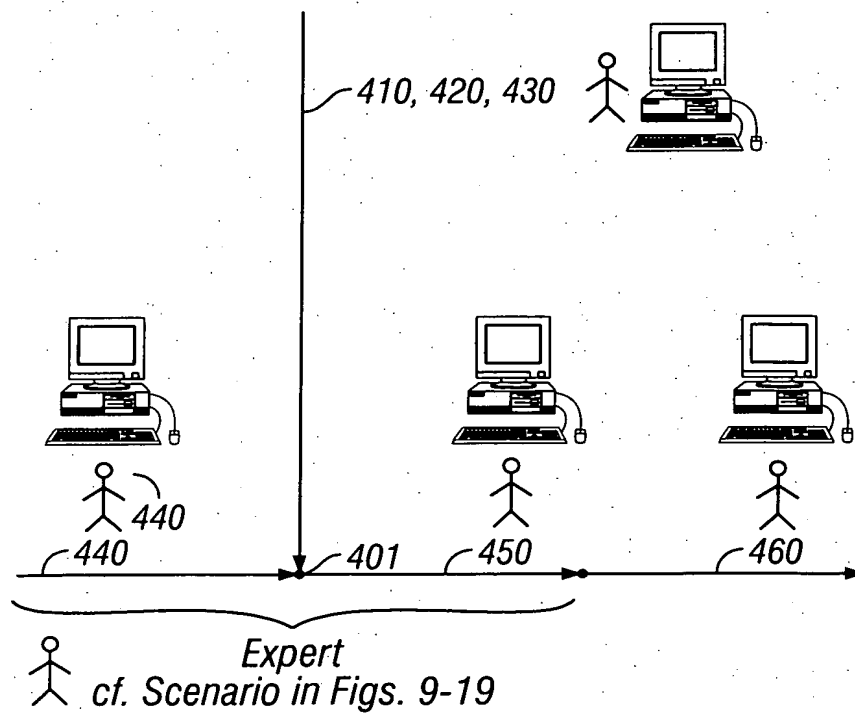


FIG. 5

5/18

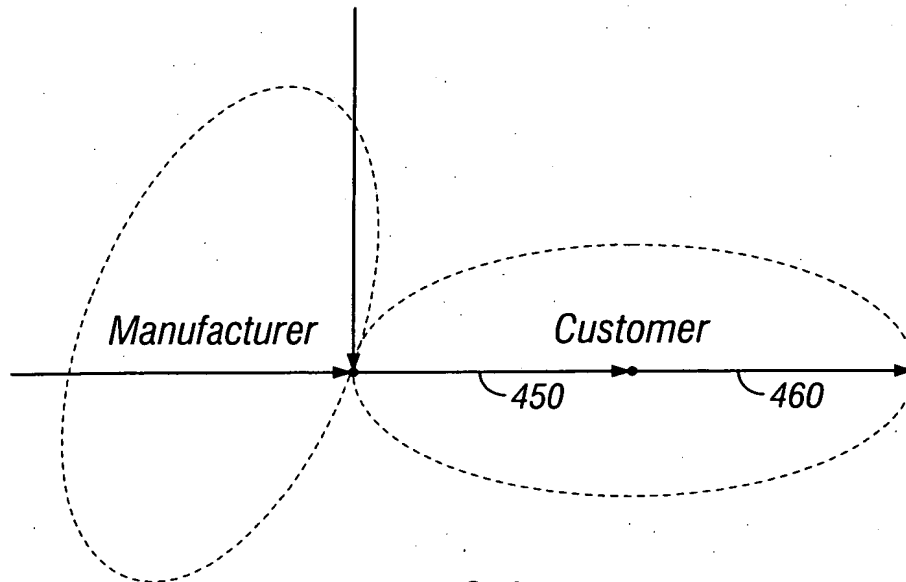


FIG. 6

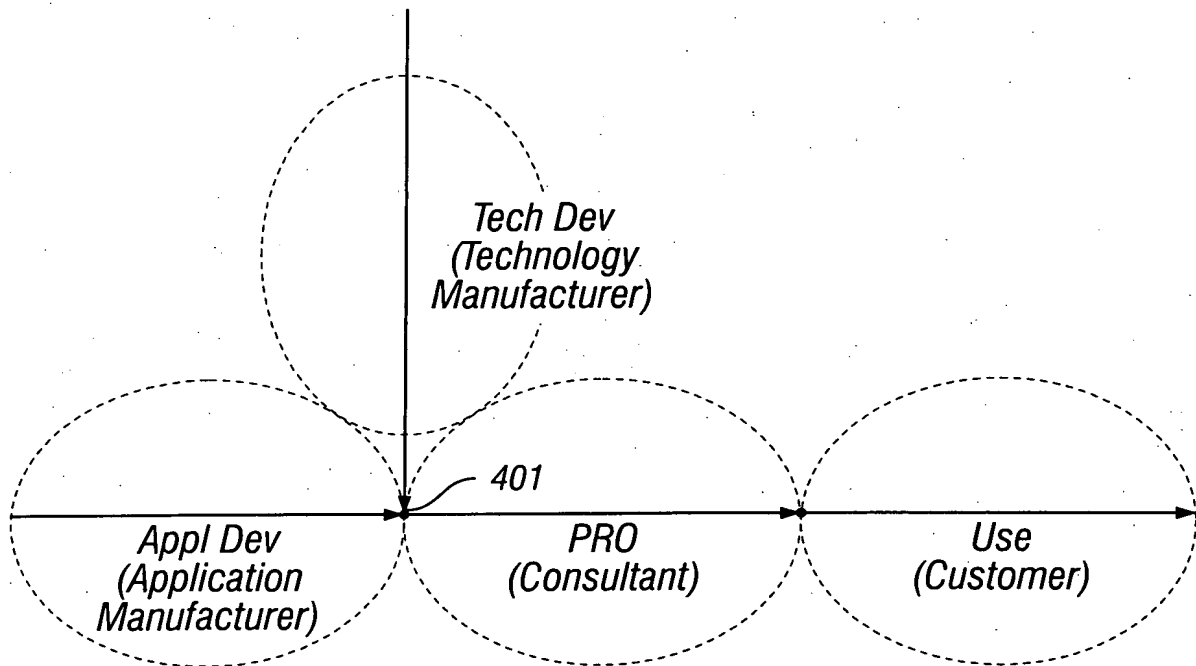


FIG. 7

6/18

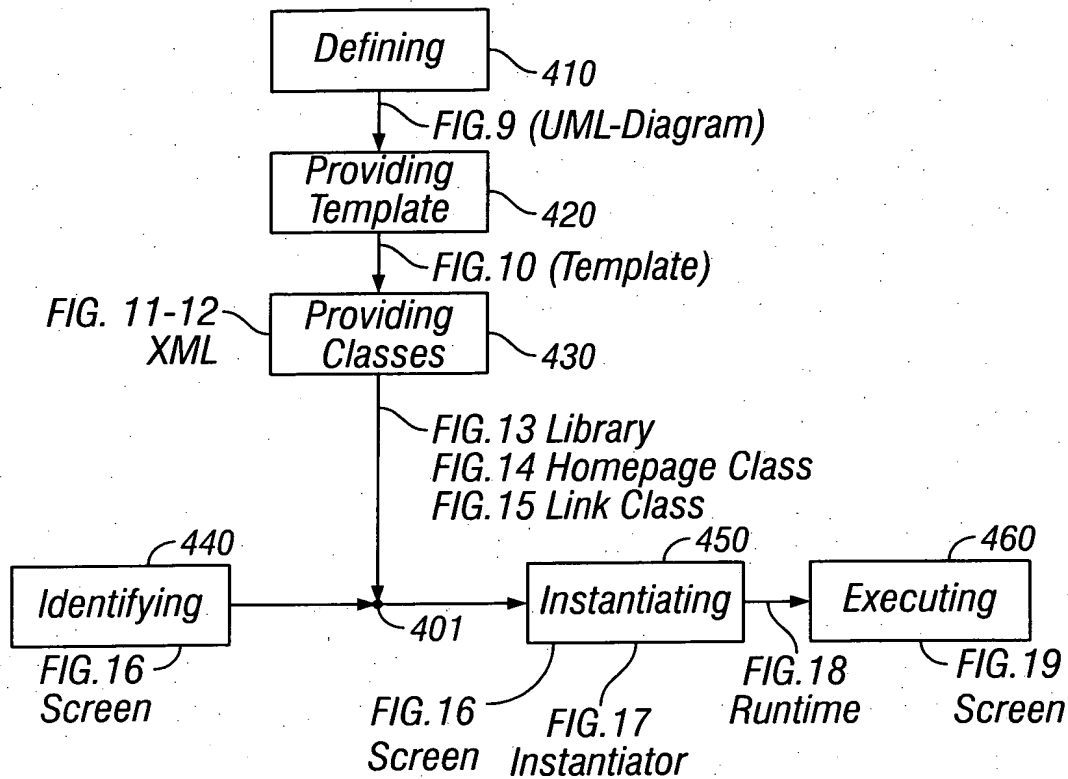


FIG. 8

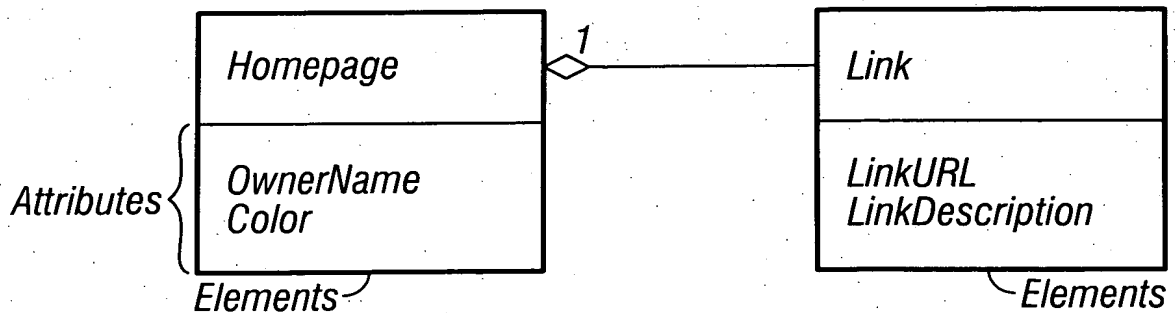


FIG. 9

7/18

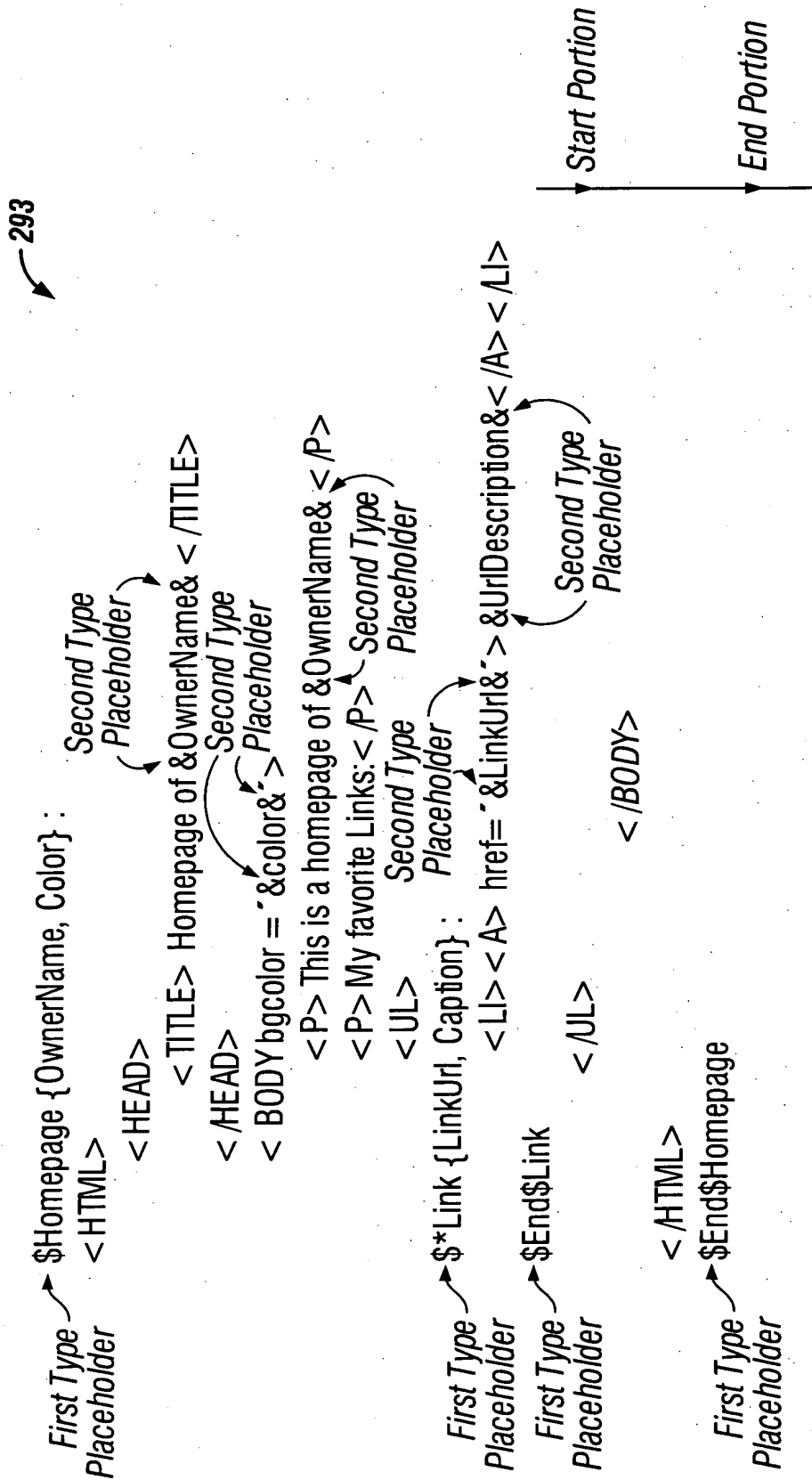


FIG. 10

8/18

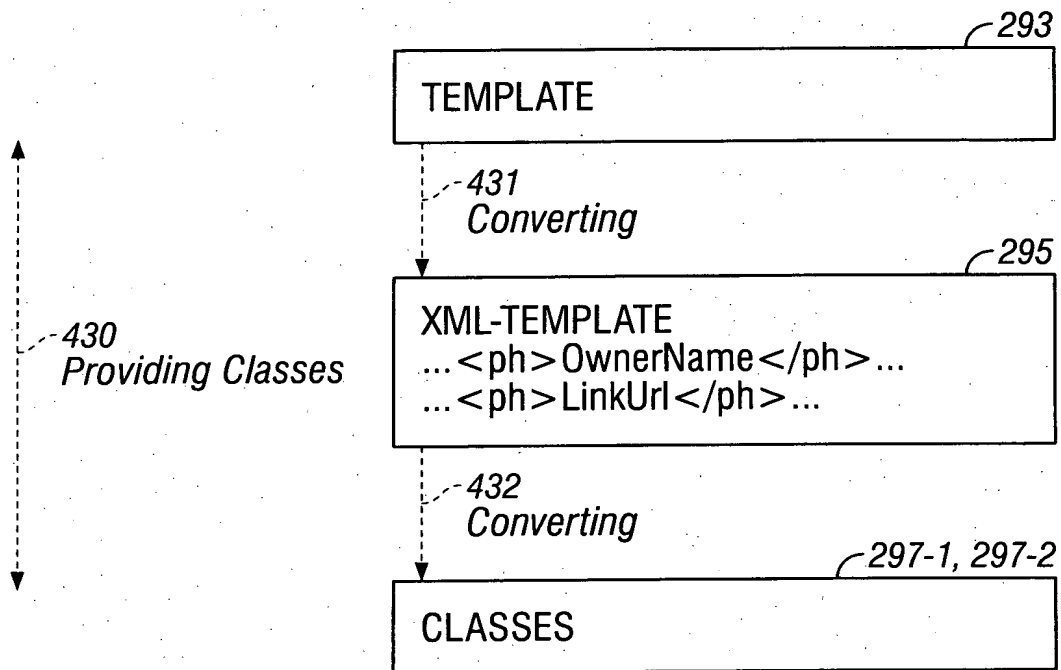


FIG.11

9/18

295 →

```

01  <?xml version="1.0"?>
03  <production name="Homepage">
05  <param name="Color">
07  <![CDATA[<HTML>
09  <HEAD><TITLE>Homepage of <ph>OwnerName</ph></TITLE></HEAD>
11  <BODY bgcolor=" " <ph>Color</ph>">
13  <P> This is a homepage of <ph>OwnerName</ph></P>
15  <P> My favorite Links:</P>
17  <UL>
19  <pph>Link</pph>
    </UL>
    </BODY> </HTML>
  ]>
  </template>
  <param name="LinkUrl">
  <template>
  <![CDATA[
    <LI><A href=" " <ph>LinkUrl</ph>"><ph>LinkDescription
    </ph></A></LI>
  ]>
  </template> </production> </library>
    
```

FIG. 12

10/18

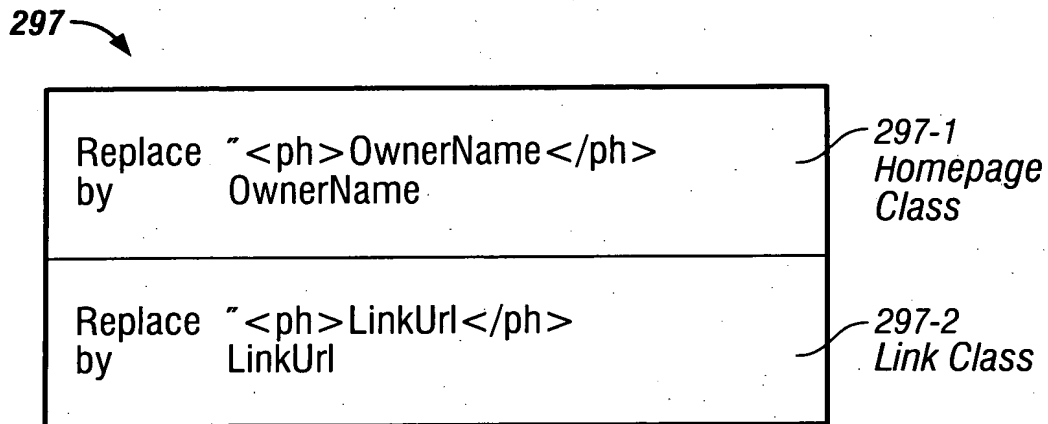


FIG. 13

11/18

297-1 →

```

1  Option Explicit
3  Public OwnerName As String
3  Private mLinks As Collection
5  Private Property Get Template() As String
5      Template = "<<HTML>Ã°
5      <ph> OwnerName</ph></TITLE>Ã°
5      <HEAD>Ã°
5      <BODY bgcolor=Ã±<ph> Color
5      </ph>Ã±>Ã°
5      <TITLE> Homepage of
5      <P> My favorite
5      <UL>Ã°
5      </UL>Ã°
5      </BODY>Ã°</HTML>Ã°"
5  End Property

11 Public Function Render() As String
13     Dim theCode As String, innerCode As String
15     Dim colltem As IASTNode

17     theCode = Template
17     innerCode = ""
17     For Each colltem In mLinks
19         innerCode = innerCode & colltem.Render()
19     Next
21     theCode = Replace(theCode, "<pph> Link</pph>", innerCode)
21     theCode = Replace(theCode, "<ph> OwnerName</ph>", OwnerName)
23     theCode = Replace(theCode, "<ph> Color</ph>", Color)
23     theCode = Replace(theCode, "Ã°", vbNewLine)
25     theCode = Replace(theCode, "Ã±", " ")
25     Render = theCode
    
```

Implements IASTNode
 Public Color As String

End Function

FIG. 14A

12/18

297-1
(Cont.)

```
27 Private Function IASTNode_Render() As String
29     IASTNode_Render = Render()
31 End Function
33 Public Function AddLink (ByVal pLinkUrl As String, ByVal pUrlDescription As String) As
    ASTLink
35     Dim 1Link As ASTLink
37     Set 1Link = New ASTLink
39     1Link.Initialize pLinkUrl, pUrlDescription
41     mLinks.Add 1Link
43     Set AddLink = 1Link
45     Set 1Link = Nothing
47 End Function
49 Public Sub Initialize (ByVal pOwnerName As String, ByVal pColor As String)
    OwnerName = pOwnerName
    Color = pColor
End Sub
Private Sub Class_Initialize()
    Set mLinks = New Collection
End Sub
Private Sub Class_Terminate()
    Set mLinks = Nothing
End Sub
```

FIG. 14B

13/18

297-2 →

```

1 Option Explicit Implements IASTNode
3 Public LinkUrl As String
4 Public UrlDescription As String
5 Private Property Get Template() As String
6     Template = "<LI><A
7 href=Ã±<ph> LinkUrl</ph>Ã±><ph> UrlDescription</ph></A></LI>Ã°" End Property
8
9 Public Function Render() As String
10     Dim theCode As String, innerCode As String
11     Dim colItem As IASTNode
12     theCode = Template
13     theCode = Replace(theCode, "<ph> LinkUrl</ph>", LinkUrl)
14     theCode = Replace(theCode, "<ph> UrlDescription</ph>", UrlDescription)
15     theCode = Replace(theCode, "Ã°", vbNewLine)
16     theCode = Replace(theCode, "Ã±", "<br>")
17     Render = theCode
18     End Function
19
20 Private Function IASTNode_Render() As String
21     IASTNode_Render = Render()
22     End Function
23 Public Sub Initialize (ByVal pLinkUrl As String, ByVal pUrlDescription As String)
24     LinkUrl = pLinkUrl
25     UrlDescription = pUrlDescription
26     End Sub
    
```

FIG. 15

14/18

Homepage Maker	
OwnerName	<input type="text" value="Otto"/>
Color	<input type="text" value="White"/>
LinkUrl	<input type="text" value="bbb.xx"/>
LinkDescription	<input type="text" value="BBB"/>
<input type="button" value="Instantiate"/>	

FIG. 16

15/18

250 → Private Sub rtnInstantiate_Click() → *Activation by Expert*

Dim objAST As ASTHomepage
Dim i As Long
Dim sBuf As String
Dim objTS As TextStream

Set objAST = New ASTHomepage
Call objAST.Initialize(txtOwnerName.Text, txtColor.Text)

For i = 0 To 1stLinks.ListCount - 2
objAST.AddLink 1stLinks.List(i+1), 1stLinks.List(i) } *Calling "Replace"*

Next
sBuf = objAST.Render

Set objTS = mPSO.CreateTextFile(txtOwnerName.Text & ".html") → 305 *Identification of Runtime Objects*
objTS.Write sBuf
objTS.Close

MsgBox "Done!"

End Sub

FIG. 17

16/18

```
<HTML>
  <HEAD>
    <TITLE> Homepage of Otto</TITLE>
  </HEAD>
  <BODY bgcolor="white">
    <P> This is a homepage of Otto</P>
    <P> My favorite Links:</P>
    <UL>
      <LI><A href="http://www.aaa.xx"> AAA</A></LI>
      <LI><A href="http://java.bbb.xx"> BBB</A></LI>
    </UL>
  </BODY>
</HTML>
```

Particular Attributes

Particular Attributes

Particular Attributes

Particular Attributes

Particular Attributes

FIG. 18

17/18

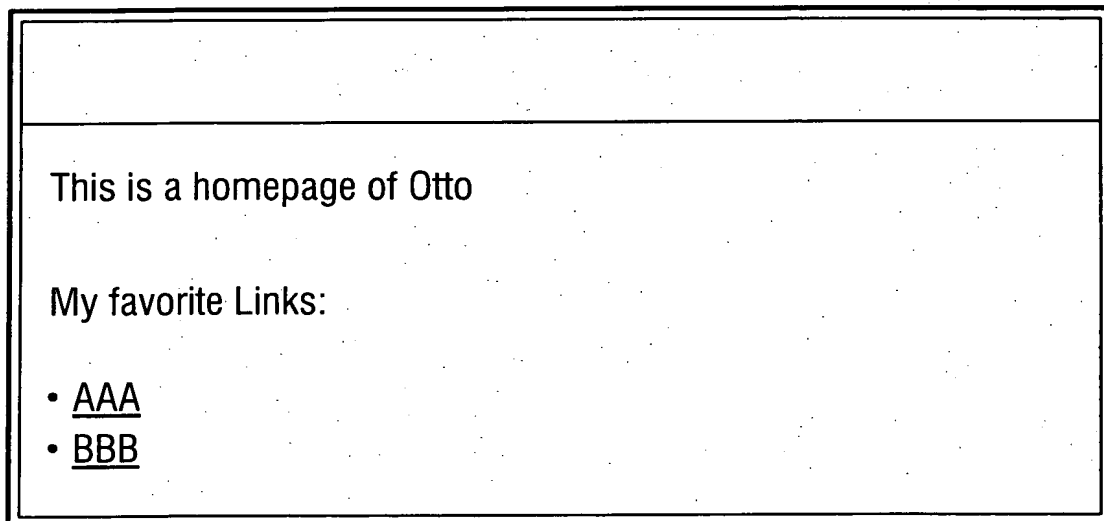


FIG. 19

18/18

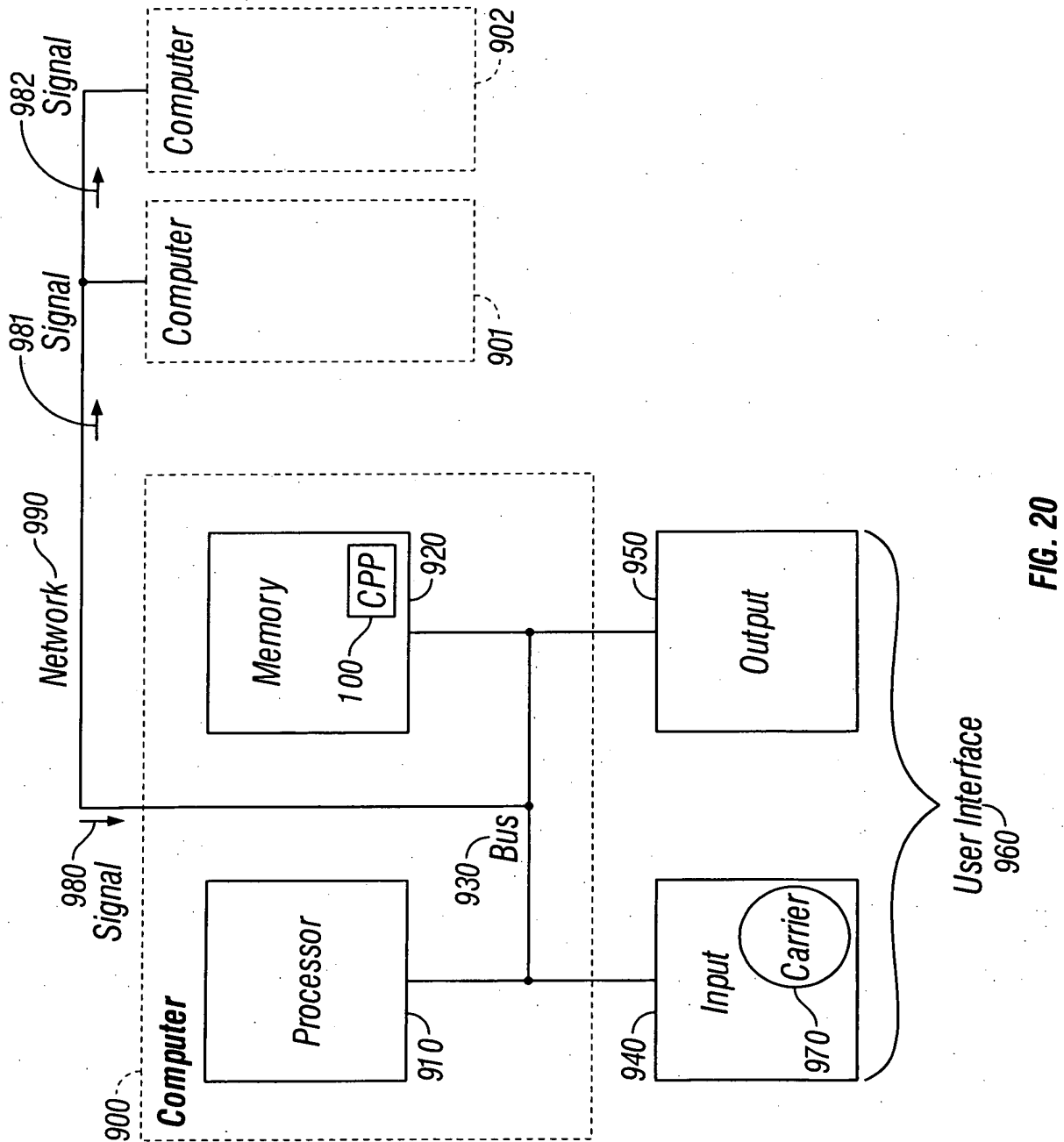


FIG. 20